

101.7 - Tool Steels (chip form) [150-g units]

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	50c	132b	134a	2172
Description	Tungsten-Chromium-Vanadium Steel	Tool Steel (AISI M2)	Molybdenum-Tungsten-Chromium-Vanadium Steel	S-7 Tool Steel
Unit of Issue	(150 g)	(150 g)	(150 g)	(150 g)

Elemental Composition (mass fraction in %)

Arsenic (As)	0.0225			
Carbon (C)	0.7193	0.864	0.808	0.480
Chromium (Cr)	4.128	4.38	3.67	3.11
Cobalt (Co)	(0.035)	0.029		
Copper (Cu)	0.0792	0.088	0.101	0.083
Manganese (Mn)	0.3417	0.341	0.218	0.61
Molybdenum (Mo)	0.0821	4.90	8.35	1.37
Nickel (Ni)	0.0686	0.230	0.088	1.04
Nitrogen (N)	0.0117			
Phosphorus (P)	0.0222	0.012	0.018	0.008
S (Comb)		0.004	0.007	0.0031
Silicon (Si)	0.3102	0.185	0.323	0.263
Sulfur (S)	0.006367		0.007 (Grav)	
Tin (Sn)	0.0183			
Tungsten (W)	18.445	6.28	2.00	

Elemental Composition (mass fraction in %)

Vanadium (V)	1.158	1.83	1.25	0.234
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- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only